Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

IN THE CLAIMS

Please cancel claims 12 and 33 without prejudice.

Please add claims 46-49.

Please amend claims 1, 7-11, 15, 16, 18-27, 29, 30, 32, 34, 38, and 42-45 as follows:

1. (Currently Amended) A printing-fluid container, comprising:

an off-axis printing-fluid reservoir configured to hold a free volume of printing fluid and air mixed together therein, the printing-fluid reservoir having a substantially planar leading surface;

a printing-fluid interface a first fluidic interface on the leading surface and extending into the printing-fluid reservoir and configured to provide bi-directional flow and move printing fluid out of and return printing fluid to the printing fluid reservoir; and

an air interface a second fluidic interface on the leading surface and extending into the printing-fluid reservoir and configured to provide bi-directional flow and move air into the printing-fluid reservoir as printing fluid is moved out of the reservoir through the printing-fluid interface, and move air out of the printing-fluid reservoir as printing fluid is returned to the reservoir through the printing-fluid interface.

wherein the first fluidic interface and the second fluidic interface are both configured to provide bi-directional flow of printing fluid, air, and a combination of printing fluid and air into and out of the printing-fluid reservoir.

- 2. (Cancelled)
- 3. (Previously Presented) The printing-fluid container of claim 1, wherein the leading surface of the printing-fluid reservoir is configured for lateral insertion into a printing system.
- 4-6. (Cancelled)

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

- 7. (Currently Amended) The printing-fluid container of claim 1, wherein the printing-fluid interface is configured to laterally input and output the printing fluid wherein one bidirectional connection is established with the first fluidic interface to provide bi-directional flow through the first fluidic interface, and one bi-directional connection is established with the second fluidic interface to provide bi-directional flow through the second fluidic interface.
- 8. (Currently Amended) The printing-fluid container of claim 1, wherein the air-interface is configured to laterally input and output the air wherein the first fluidic interface and the second fluidic interface are both configured to laterally input and output printing fluid, air, and a combination of printing fluid and air into and out of the printing-fluid reservoir.
- 9. (Currently Amended) The printing-fluid container of claim 1, wherein the printing-fluid interface includes a ball and septum assembly.
- 10. (Currently Amended) The printing-fluid container of claim 1, wherein the airinterface the second fluidic interface includes a ball and septum assembly.
- 11. (Currently Amended) The printing fluid container of claim 1, wherein the printing-fluid interface and the air-interface are each respectively configured to conditionally block input and output of printing fluid and air unless engaged by a fluid connector wherein the first fluidic interface and the second fluidic interface are both configured to conditionally block input and output of printing fluid, air, and a combination of printing fluid and air into and out of the printing-fluid reservoir unless engaged by a fluid connector.

12-14. (Cancelled)

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

15. (Currently Amended) The printing-fluid container of claim 12 claim 43, wherein the leading surface has a substantially planar profile.

- 16. (Currently Amended) The printing-fluid container of <u>claim 12 claim 43</u>, wherein the air-interface is above the printing-fluid interface on the leading surface of the printing-fluid reservoir.
- 17. (Previously Presented) The printing-fluid container of claim 16, wherein the air-interface is vertically aligned above the printing-fluid interface on the leading surface of the printing-fluid reservoir.
- 18. (Currently Amended) The printing-fluid container of <u>claim 12 claim 43</u>, wherein a single structural piece forms the leading surface.
- 19. (Currently Amended) The printing-fluid container of-claim 12 claim 43, wherein the printing-fluid interface is configured to laterally input and output the printing fluid.
- 20. (Currently Amended) The printing-fluid container of <u>claim 12 claim 43</u>, wherein the air-interface is configured to laterally input and output the air.
- 21. (Currently Amended) The printing-fluid container of <u>elaim 12 claim 43</u>, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir to an operating pressure substantially equivalent to an ambient atmosphere pressure.
- 22. (Currently Amended) The printing-fluid container of-elaim-12 claim 43, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir to an operating pressure above an ambient atmosphere pressure.

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

- 23. (Currently Amended) The printing-fluid container of <u>elaim 12 claim 43</u>, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir to an operating pressure below an ambient atmosphere pressure.
- 24. (Currently Amended) The printing-fluid container of-claim 12 claim 43, wherein the air-interface actively regulates pressure within the printing-fluid reservoir.
- 25. (Currently Amended) The printing-fluid container of-claim 12 claim 43, wherein the air-interface passively regulates pressure within the printing-fluid reservoir.
- 26. (Currently Amended) The printing-fluid container of <u>elaim 12 claim 43</u>, wherein the printing-fluid interface includes a ball and septum assembly.
- 27. (Currently Amended) The printing-fluid container of-elaim 12 claim 43, wherein the printing-fluid interface is configured to receive a fluid connector that is in fluid communication with a printing-fluid ejector upon installation of the printing-fluid container into a printing system.
- 28. (Original) The printing-fluid container of claim 27, wherein the printing-fluid interface is configured to deliver printing fluid to the printing-fluid ejector via the fluid connector during the first mode of operation.
- 29. (Currently Amended) The printing-fluid container of <u>elaim 12 claim 43</u>, wherein the air-interface includes a ball and septum assembly.
- 30. (Currently Amended) The printing-fluid container of <u>elaim 12 claim 43</u>, wherein the air-interface is configured to receive a fluid connector that is in fluid communication with a venting assembly upon installation of the printing-fluid container into a printing system.

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

- 31. (Original) The printing-fluid container of claim 30, wherein the air-interface is configured to vent air to the venting assembly via the fluid connector during the second mode of operation.
- 32. (Currently Amended) The printing-fluid container of-claim 12 claim 43, wherein the printing-fluid interface and the air-interface are respectively configured to conditionally block input and output of printing fluid and air unless the printing-fluid interface is engaged by a fluid connector and the air-interface is engaged by a fluid connector.
- 33. (Cancelled)
- 34. (Currently Amended) The printing-fluid container of <u>claim 33 claim 44</u>, wherein a single structural piece forms the leading surface of the printing-fluid reservoir.
- 35-37. (Cancelled)
- 38. (Currently Amended) A method of supplying printing fluid, comprising: storing a free volume of printing fluid and air mixed together in a reservoir having an air-interface configured to provide bi-directional flow and a printing-fluid interface configured to provide bi-directional flow;

establishing one bi-directional connection with the air-interface and one bi-directional connection with the printing-fluid interface;

allowing printing fluid to exit the reservoir through the printing-fluid interface and allowing air to enter the reservoir through the air-interface as printing fluid is moved out of the reservoir through the printing-fluid interface during a first mode of operation; and

allowing printing fluid to return to the reservoir through the printing-fluid interface and allowing air to exit the reservoir through the air-interface as the printing fluid is returned to the reservoir through the printing-fluid interface during a second mode of operation.

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

39. (Original) The method of claim 38, wherein allowing printing fluid to exit the reservoir includes laterally delivering printing fluid from the reservoir.

- 40. (Original) The method of claim 38, wherein allowing printing fluid to return to the reservoir includes laterally returning printing fluid to the reservoir.
- 41. (Previously Presented) The method of claim 38, wherein allowing printing fluid to return to the reservoir includes returning printing fluid and at least one of air and froth.
- 42. (Currently Amended) The printing-fluid container of claim 1, wherein the printing-fluid interface and the air-interface wherein the first fluidic interface and the second fluidic interface are both configured to provide bi-directional flow while the printing-fluid container is seated in a printing-fluid container bay of a printing system.
- 43. (Currently Amended) The printing-fluid container of claim 12A printing-fluid container, comprising:

an off-axis printing-fluid reservoir configured to hold a free volume of printing fluid and air mixed together therein, the printing-fluid reservoir having a leading surface configured for lateral insertion into a printing system;

a printing-fluid interface on the leading surface of the printing-fluid reservoir and extending into the reservoir, wherein the printing-fluid interface is configured to provide bidirectional flow and output printing fluid from the printing-fluid reservoir during a first mode of operation and return printing fluid to the printing-fluid reservoir during a second mode of operation; and

an air-interface on the leading surface of the printing-fluid reservoir and extending into the reservoir, wherein the air-interface is configured to provide bi-directional flow and regulate pressure within the printing-fluid reservoir by inputting air into the printing-fluid reservoir as printing fluid is moved out of the printing-fluid reservoir through the printing-fluid interface during the first mode of operation and by outputting air from the printing-fluid

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

reservoir as printing fluid is returned to the printing-fluid reservoir through the printing-fluid interface during the second mode of operation,

wherein the printing-fluid interface and the air-interface are both configured to provide bi-directional flow while the printing-fluid container is installed in the printing system.

44. (Currently Amended) The printing fluid container of claim 33 A printing-fluid container, comprising:

an off-axis printing-fluid reservoir configured to hold a free volume of printing fluid and air mixed together therein;

a ball and septum printing-fluid interface on a leading surface of the printing-fluid reservoir, wherein the printing-fluid interface is configured to provide bi-directional flow and output printing fluid from the printing-fluid reservoir during a first mode of operation and return printing fluid to the printing-fluid reservoir during a second mode of operation; and

a ball and septum air-interface vertically aligned above the printing-fluid interface on the leading surface of the printing-fluid reservoir, wherein the air-interface is configured to provide bi-directional flow and regulate pressure within the printing-fluid reservoir by inputting air into the printing-fluid reservoir as printing fluid is moved out of the printing-fluid reservoir through the printing-fluid interface during the first mode of operation and by outputting air from the printing-fluid reservoir as printing fluid is returned to the printing-fluid reservoir through the printing-fluid interface during the second mode of operation:

wherein the printing-fluid interface and the air-interface are configured to block input and output of printing fluid and air until the printing-fluid container is laterally installed into a printing system and a first fluid connector engages the printing-fluid interface and a second fluid connector engages the air-interface,

wherein the printing-fluid interface and the air-interface are both configured to provide bi-directional flow while the printing-fluid container is installed in a printing system.

Applicant: Charlie Steinmetz et al.

Serial No.: 10/768,412 Filed: January 29, 2004 Docket No.: 200209323-1

Title: PRINTING-FLUID CONTAINER

45. (Currently Amended) The method of claim 38A method of supplying printing fluid, comprising:

storing a free volume of printing fluid and air mixed together in a reservoir having an air-interface configured to provide bi-directional flow and a printing-fluid interface configured to provide bi-directional flow;

allowing printing fluid to exit the reservoir through the printing-fluid interface and allowing air to enter the reservoir through the air-interface as printing fluid is moved out of the reservoir through the printing-fluid interface during a first mode of operation; and

allowing printing fluid to return to the reservoir through the printing-fluid interface and allowing air to exit the reservoir through the air-interface as the printing fluid is returned to the reservoir through the printing-fluid interface during a second mode of operation,

wherein the printing-fluid interface and the air-interface are both configured to provide bi-directional flow while the reservoir is installed in a printing system.

- 46. (New) The method of claim 45, wherein allowing printing fluid to exit the reservoir includes laterally delivering printing fluid from the reservoir.
- 47. (New) The method of claim 45, wherein allowing printing fluid to return to the reservoir includes laterally returning printing fluid to the reservoir.
- 48. (New) The method of claim 45, wherein allowing printing fluid to return to the reservoir includes returning printing fluid and at least one of air and froth.
- 49. (New) The method of claim 38, wherein establishing one bi-directional connection with the air-interface and one bi-directional connection with the printing-fluid interface includes establishing the one bi-directional connection with the air-interface for both the first mode of operation and the second mode of operation, and establishing the one bi-directional connection with the printing-fluid interface for both the first mode of operation and the second mode of operation.